



WELCOME



EMS and 911 Experts Unite to Improve CPR

EMS FOCUS

Today



- ▶ Cardiac arrest care and the need for change
- ▶ Life saving results from Bend, OR
- ▶ CPR LifeLinks Project
- ▶ Opportunities for you to get involved

Today's Speakers



- ▶ Jon Krohmer, MD, Director
 - ▶ NHTSA Office of EMS
- ▶ Megan Craig, Training Coordinator
 - ▶ Deschutes County 911, Bend, Oregon
- ▶ Petar Hossick, EMS Training Officer
 - ▶ Bend Fire Department, Oregon
- ▶ Ben Bobrow, MD, FACEP, FAHA
 - ▶ University of Arizona College of Medicine, and Project Lead for CPR LifeLinks



Megan Craig

Training Coordinator
Deschutes County 911
Bend, Oregon



Petar Hossick

EMS Training Officer
Bend Fire Department
Oregon



“We would tear our department apart and rebuild it step by step, if we thought we were losing 4-6 citizens per year that should have been rescued from fires.

So when we know we can save 4 to 6 additional people every year from cardiac arrest– are we as an agency going to step up and put the same energy into saving these CPR patients?

To the family –dead is dead, and equally tragic, so why would we spend any less effort saving these patients?”

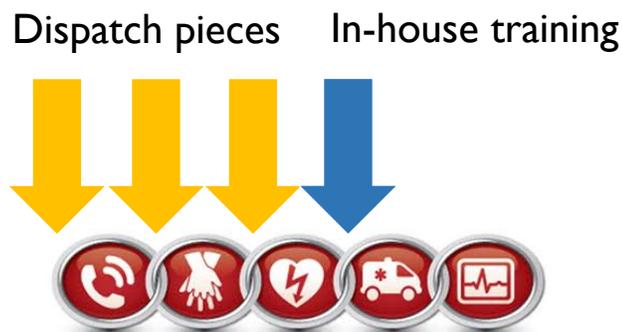
-Russ McCallion Assistant Chief East Pierce Fire and Rescue

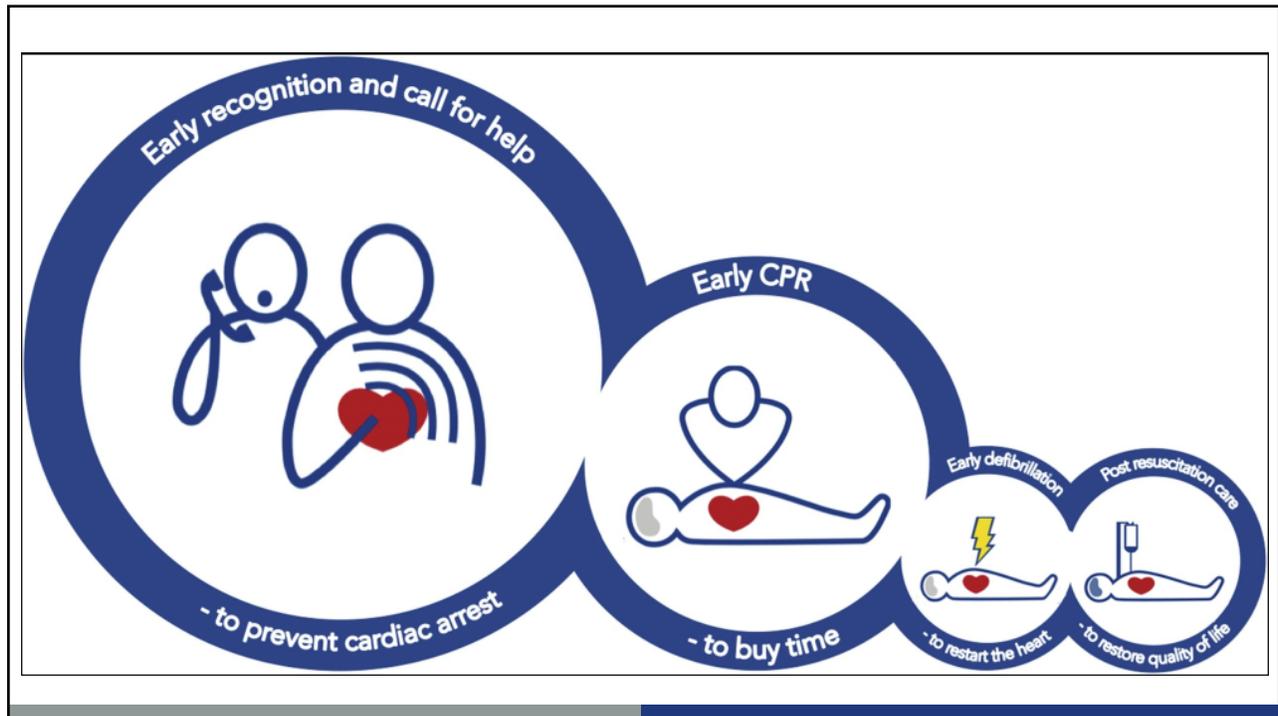
Paradigm Shift



- ▶ Establish a baseline
- ▶ Identify challenges
 - ▶ It can't be a siloed system
- ▶ Involve stakeholders

Where Can I Influence Change?





How We Did It

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- ▶ Changed the way we trained
 - ▶ As agencies, we had to believe that people in cardiac arrest are savable
 - ▶ Science behind CPR
 - ▶ High Performance CPR
 - ▶ Ride Alongs / Sit Alongs
- ▶ Offered timely and relevant feedback
 - ▶ Call review
 - ▶ Conversations / updates on the dispatch floor
 - ▶ Acknowledge good work regardless of patient outcome

Celebrate! (Yes, even the small victories)



Know the "Why"





Ben Bobrow, MD, FACEP, FAHA

Professor of Emergency Medicine

University of Arizona College of Medicine, CPR LifeLinks Project Lead

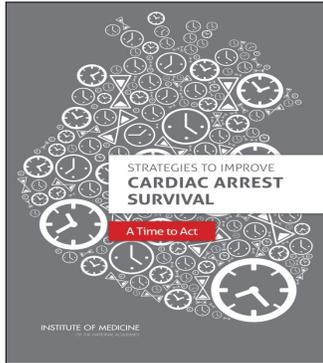
Out-of-Hospital Cardiac Arrest

> 250,000 events per year

~ 6% national survival



Strategies to Improve Cardiac Arrest Survival: A Time to Act



Why Do We Need This?



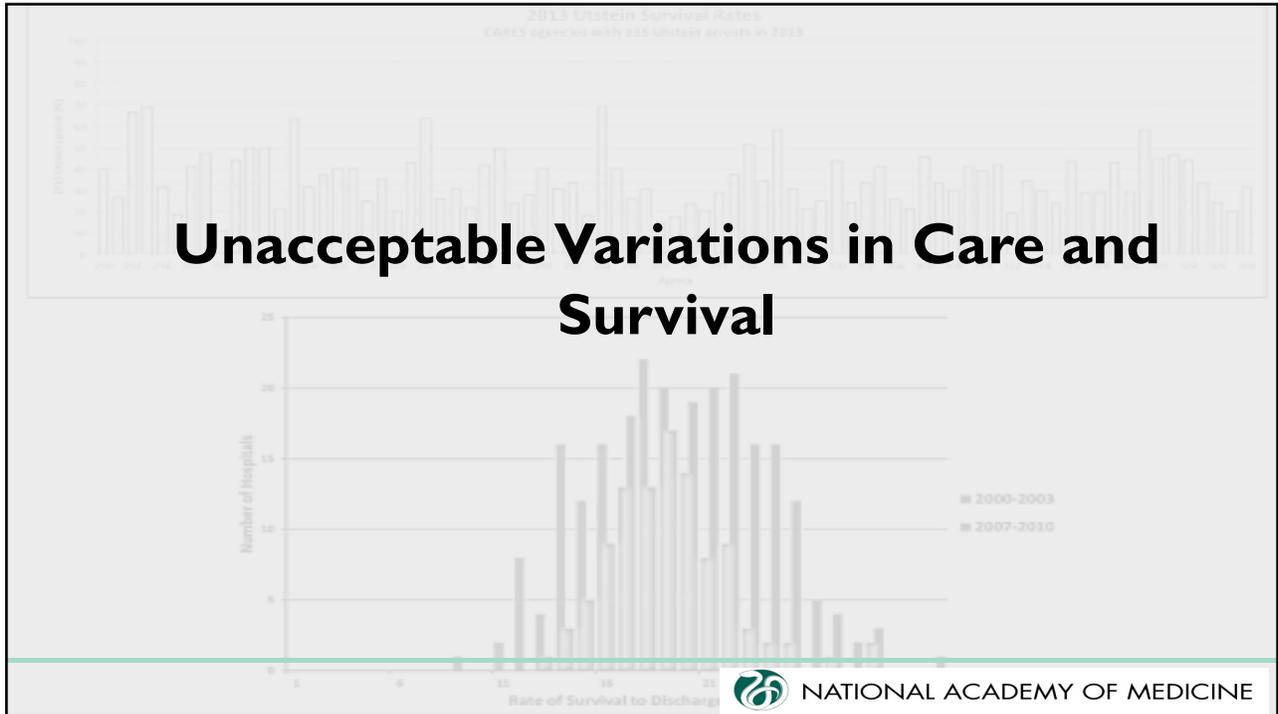
<http://www.nationalacademies.org/hmd/Reports/2015/Strategies-to-Improve-Cardiac-Arrest-Survival.aspx>

Suggested citation: IOM (Institute of Medicine). 2015. *Strategies to improve cardiac arrest survival: A time to act*. Washington, DC: The National Academies Press.

INSTITUTE OF MEDICINE
OF THE NATIONAL ACADEMIES

Need for Immediate Provision of Care

- ▶ Time to first compressions and defibrillation are crucial and the best way to improve outcomes
- ▶ Any CPR or defibrillation by the public is better than no care
- ▶ Bystanders and family members are needed to activate emergency medical services and provide care



Major Report Themes

1. Cardiac arrest can strike anyone and affects hundreds of thousands of people each year
2. Cardiac arrest requires a system response
3. Speed and quality of EMS care matter
4. EMS leadership and accountability are key to improve system response and outcomes



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Recommendation 3: Enhance the Capabilities and Performance of EMS Systems

NHTSA should coordinate with other federal agencies and representatives from private industry, states, professional organizations, first responders, EMS systems, and non-profit organizations to convene interested stakeholders:

- To develop standardized **dispatcher-assisted CPR protocols and national educational standards** for use by all PSAPs
- To establish a **standardized definition and training curriculum for High-Performance CPR** to be used in basic emergency medical technician training and certification



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Telecommunicator CPR Training/Protocol/CQI

- ▶ **Examples of Dispatcher-Assisted CPR Performance Metrics**
 - ▶ Percentage of cardiac arrests recognized when dispatchers have a chance to assess patient consciousness and breathing
 - ▶ Time from call receipt to recognition of cardiac arrest
 - ▶ Percentage of cases that receive chest compressions when dispatchers have a chance to assess patient status and CPR is not already in progress
 - ▶ Time from call receipt to first chest compressions

High-Performance CPR

“...the quality of EMS-provider CPR for both adult and pediatric cardiac arrest patients is frequently suboptimal.”

“...educating and training EMS providers to effectively use High-Performance CPR can help improve the quality of CPR and increase the likelihood of survival with good neurologic outcomes.”

Project Deliverables

- ▶ Develop:
 - ▶ Definitions for T-CPR & HP-CPR
 - ▶ Training and implementation strategies for T-CPR and HP-CPR
 - ▶ Protocols and best practice recommendations for T-CPR
 - ▶ T-CPR training and implementation national standards for PSAPs
 - ▶ HP-CPR training and implementation national standards for EMS

- ▶ Create widespread awareness/adoption around these operational tools



CPRLifeLinks Content

911 and EMS united to save more lives.

PART 1: TELECOMMUNICATOR CPR (T-CPR)

- Section 1: Overview
- Section 2: The Commitment to Act: Challenges and Perspectives
- Section 3: AHA T-CPR Program and Performance Recommendations
- Section 4: Protocols
- Section 5: Telecommunicator Training
- Section 6: Achieving a T-CPR Culture of Excellence

Complete training package of cognitive and hands-on training and assessment tools along with audiovisual demonstrations to assure provider proficiency.

PART 2: HIGH-PERFORMANCE CPR (HP-CPR)

- Section 1: Overview
- Section 2: The Commitment to Act: Challenges and Perspectives
- Section 3: Performance Recommendations
- Section 4: Common CPR Quality Issues
- Section 5: Training
- Section 6: Achieving an HP-CPR Culture of Excellence

T-CPR: Challenges and Perspectives



Challenge #1 – Staffing

Challenge #2 – Lack of Medical Direction

Challenge #3 – Perceived Liability Concerns

Challenge #4 – Budget Constraints

Challenge #5 – Charter/Perceived Scope of Practice

Challenge #6 – Data Sharing

HP-CPR: Challenges and Perspectives



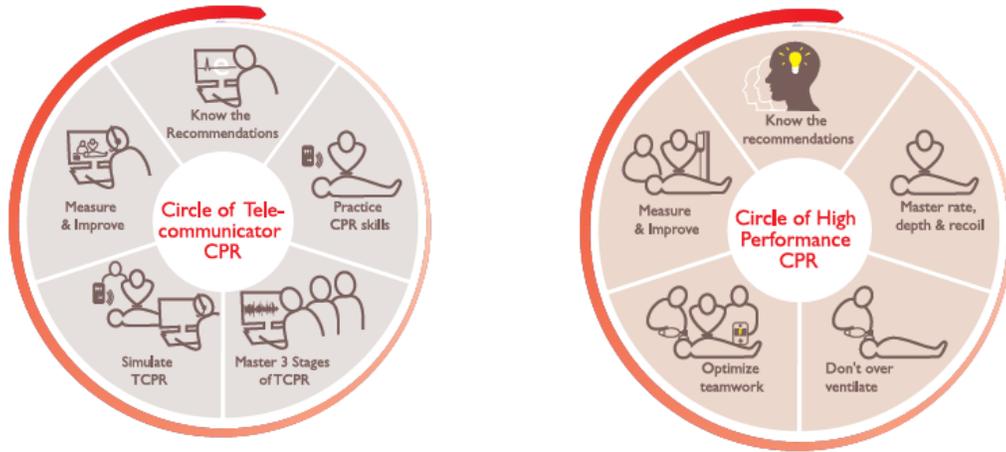
Challenge #1 – Leadership

Challenge #2 – Agency Culture

Challenge #3 – Operational Constraints



T-CPR and HP-CPR Training



Who's Involved?



Your Input is Vital!

- ▶ **Provide comment by October 1st**
 - ▶ <https://www.ems.gov/projects/cpr-lifelinks.html>
 - ▶ https://www.911.gov/project_telecommunicatorassistedCPR.html



Materials: What Will be Available

- ▶ Toolkit to establish a CPR improvement program
- ▶ Training decks to support the toolkit
- ▶ Presentation decks for leaders and team members



Materials: Where to Find Them

▶ <https://www.ems.gov/projects/cpr-lifelinks.html>



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HOME PROJECTS INITIATIVES FICEMS NEMSAC NEWS & EVENTS

HOME > PROJECTS > CPR LIFE LINKS

PROJECTS

- ▶ CPR LifeLinks
- ▶ EMS Agenda 2050
- ▶ AACN Training Course
- ▶ EMS Compass
- ▶ Fatigue in EMS
- ▶ Transportation of Children
- ▶ Provider & Patient Safety
- ▶ Stop the Bleed Initiative
- ▶ Using EMS Data
- ▶ NEMESIS

CPR LifeLinks

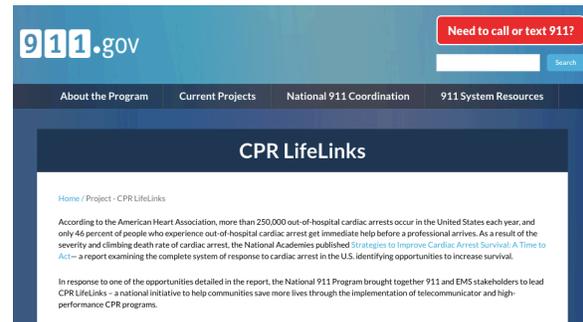
CPR LifeLinks is a national initiative to help communities save more lives through the implementation of telecommunicator and high-performance CPR programs. With help from the community, a how-to guide will be developed for EMS and 911 agencies to implement programs to improve cardiac arrest survival rates.

Background

According to the American Heart Association, more than 250,000 out-of-hospital cardiac arrests occur in the United States each year, and only 46% of people who experience out-of-hospital



▶ https://www.911.gov/project_telecommunicator-assistedCPR.html



911.gov

Need to call or text 911?

About the Program Current Projects National 911 Coordination 911 System Resources

CPR LifeLinks

Home / Project - CPR LifeLinks

According to the American Heart Association, more than 250,000 out-of-hospital cardiac arrests occur in the United States each year, and only 46 percent of people who experience out-of-hospital cardiac arrest get immediate help before a professional arrives. As a result of the severity and climbing death rate of cardiac arrest, the National Academies published *Strategies to Improve Cardiac Arrest Survival: A Time to Act* – a report examining the complete system of response to cardiac arrest in the U.S. Identifying opportunities to increase survival.

In response to one of the opportunities detailed in the report, the National 911 Program brought together 911 and EMS stakeholders to lead CPR LifeLinks – a national initiative to help communities save more lives through the implementation of telecommunicator and high-performance CPR programs.

You Can Start By...

- ▶ Building a relationship between your 911 center and EMS agency - start the CPR dialogue
- ▶ Promoting and disseminating CPR LifeLinks locally, regionally and nationally
- ▶ Implementing, measuring and saving lives!

**Thank you for your dedication
to saving lives!**



Q/A

For more information about CPR LifeLinks, visit:

- ▶ <https://www.ems.gov/projects/cpr-lifelinks.html>
- ▶ https://www.911.gov/project_telecommunicatorassistedCPR.html

A recording of this webinar will be available on [ems.gov/ems-focus.html](https://www.ems.gov/ems-focus.html)

Q/A

Email questions and comments about this presentation to:

NHTSA National 911 Program, nhtsa.national911@dot.gov